

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04445

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61K31/426, A61P1/00, C07D277/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K31/426, A61P1/00, C07D277/56

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS (STN), REGISTRY (STN), MEDLINE (STN), EMBASE (SNT)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 870765 A1 (ZERIA PHARMACEUTICAL CO., LTD.), 14 October, 1998 (14.10.98), Claims; page 10 & JP 3181919 B2 & US 5981557 A & WO 96/36619 A1 & CA 2219747 A & AU 9657024 A & AU 699008 B & CN 1184471 A & CN 1063442 B	1-8
X	JP 10-212271 A (ZERIA PHARMACEUTICAL CO., LTD.), 11 August, 1998 (11.08.98), Claims; column 42 (Family: none)	1-8



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
06 May, 2003 (06.05.03)

Date of mailing of the international search report
27 May, 2003 (27.05.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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PCT/JP03/04445

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 994108 A1 (ZERIA PHARMACEUTICAL CO., LTD.), 19 April, 2000 (19.04.00), Page 1 & WO 98/58918 A1 & JP 11-012260 A & JP 11-071359 A & AU 9880372 A & AU 725155 B & CN 1084739 B & US 6197970 B1	1-8
X	WO 02/020010 A1 (ZERIA PHARMACEUTICAL CO., LTD.), 14 March, 2002 (14.03.02), Page 3 & AU 2001056685 A & US 2002/051805 A	1-8
X	MORITA, H., "Possible involvement of M5 muscarinic receptor in the enhancing actions of the novel gastroprokinetic agent Z-338 on nifedipine-sensitive voltage-dependent Ca ²⁺ currents in guinea pig stomach", Japanese Journal of Pharmacology (2002), Vol.89, No.4, pages 356 to 365	1-8
X	KANEMOTO, Y., "An electrophysiological study of muscarinic and nicotinic receptors of rat paratracheal ganglion neurons and their inhibition by Z-338", British Journal of Pharmacology (2002), Vol.135, No.6, pages 1403 to 1414	1-8
X	OGISHIMA, M., "Z-338 facilitates acetylcholine release from enteric neurons due to blockade of muscarinic autoreceptors in guinea pig stomach", Journal of Pharmacology and Experimental Therapeutics (2000), Vol.294, No.1, pages 33 to 37	1-8
X	NAKAJIMA, T., "Z-338, a newly synthesized carboxamide derivative, stimulates gastric motility through enhancing the excitatory neurotransmission", Journal of Smooth Muscle Research (2000), Vol.36, No.2, pages 69 to 81	1-8
X	FURUTA, S., "LC determination of Z-338, novel gastroprokinetic agent in dog plasma by SCX solid phase extraction", Journal of Pharmaceutical and Biomedical Analysis (2001), Vol.25, No.3-4, pages 599 to 603	1-8

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Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 9-12

because they relate to subject matter not required to be searched by this Authority, namely:

Claims 9 to 12 pertain to methods for treatment of the human body by therapy and thus relate to a subject matter which this International Searching Authority is not required, under the provisions of Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.